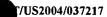
What is claimed is:

- 1. A crosslinked biodegradable stent comprising at least one layer or zone of biological material, said biological material comprising at least one bioactive agent and being crosslinked with a means for crosslinking said biological material.
- 2. The crosslinked biodegradable stent of claim 1, wherein the biological material is selected from a group consisting of collagen, gelatin, elastin, chitosan, NOCC, fibrin glue, biological sealant, chitosan-alginate complex, and combination thereof.
- 3. The crosslinked biodegradable stent of claim 1, wherein the biological material is crosslinked with a crosslinking agent selected from a group consisting of genipin, its analog, derivatives, and combination thereof, aglycon geniposidic acid, epoxy compounds, dialdehyde starch, glutaraldehyde, formaldehyde, dimethyl suberimidate, carbodiimides, succinimidyls, diisocyanates, acyl azide, reuterin, and combination thereof.
- 4. The crosslinked biodegradable stent of claim 1, wherein the biological material is crosslinked with a means for crosslinking said material, the means comprising exposing said material to ultraviolet irradiation, dehydrothermal treatment, tris(hydroxymethyl)phosphine, ascorbate-copper, glucose-lysine or photo-oxidizers.
- 5. The crosslinked biodegradable stent of claim 1, wherein the biological material is crosslinked with a reversible crosslinking agent selected from a group consisting of polyphenolic compounds, proanthocyanidin, epigallocatechin gallate, epicatechin, epigallocatechin, epicatechin gallate, and combination thereof.
- 6. The crosslinked biodegradable stent of claim 1, wherein the stent is configured a cylindrical shape that has a first circumference length before contacting water and a second circumference length after contacting water, wherein the second circumference length is at least 5% more than the first circumference length.
- 7. The crosslinked biodegradable stent of claim 1, wherein the stent comprises a plurality of open-ring stent members along with a longitudinal stent base, said stent being configured in a cylindrical manner.
- 8. The crosslinked biodegradable stent of claim 1, wherein the stent is configured in a generally cylindrical shape, said stent comprising at least one spiral film.
- 9. A crosslinked biodegradable implant comprising at least one layer or zone of biological material, said biological material comprising at least one bioactive agent and being crosslinked with a means for crosslinking said biological material.
- 10. The implant of claim 9, wherein the implant comprises a first layer or zone of a first biological material with a first bioactive agent and a second layer or zone of a second biological material with a second bioactive agent.
- 11. The implant of claim 10, wherein the implant further comprises a third layer or zone of a third biological material with a third bioactive agent.
- 12. The implant of claim 9, wherein the at least one layer or zone is made of a biodegradable shape memory polymer.
- 13. The implant of claim 9, wherein the at least one bioactive agent is selected from a group consisting of analgesics/antipyretics, antiasthamatics, antibiotics, antidepressants, antidiabetics, antifungal agents, antihypertensive agents, anti-inflammatories, antineoplastics, antianxiety agents, immunosuppressive



agents, antimigraine agents, sedatives/hypnotics, antipsychotic agents, antimanic agents, antiarrhythmics, antiarthritic agents, antigout agents, anticoagulants, thrombolytic agents, antifibrinolytic agents, antiplatelet agents and antibacterial agents, antiviral agents, antimicrobials, anti-infectives, and combination thereof.

- 14. The implant of claim 9, wherein the at least one bioactive agent comprises an angiogenesis factor or anti-angiogenesis factor.
- 15. The implant of claim 9, wherein the at least one bioactive agent is selected from a group consisting of actinomycin D, paclitaxel, vincristin, methotrexate, angiopeptin, batimastat, halofuginone, sirolimus, tacrolimus, everolimus, ABT-578, tranilast, dexamethasone, mycophenolic acid, and combination thereof.
- 16. The implant of claim 9, wherein the at least one bioactive agent is selected from a group consisting of lovastatin, thromboxane A₂ synthetase inhibitors, eicosapentanoic acid, ciprostene, trapidil, angiotensin convening enzyme inhibitors, aspirin, heparin, and combination thereof.
- 17. The implant of claim 9, wherein the at least one bioactive agent is selected from a group consisting of allicin, ginseng extract, ginseno side Rg1, flavone, ginkgo biloba extract, glycyrrhetinic acid, lipostabil, proanthocyanides, and combination thereof.
- 18. The implant of claim 9, wherein the at least one bioactive agent is selected from a group consisting of ApoA-I Milano or recombinant ApoA-I Milano/phospholipid complexes.
- 19. The implant of claim 9, wherein the at least one bioactive agent is selected from a group consisting of biological cells or endothelial progenitor cells.
- 20. The implant of claim 9, wherein the at least one bioactive agent is selected from a group consisting of a growth factor selected from a group consisting of vascular endothelial growth factor, transforming growth factor-beta, insulin-like growth factor, platelet derived growth factor, fibroblast growth factor, and combination thereof.
- 21. The implant of claim 9, wherein the biological material is selected from a group consisting of collagen, gelatin, elastin, chitosan, NOCC, fibrin glue, biological sealant, chitosan-alginate complex, and combination thereof.
- 22. The implant of claim 9, wherein the means for crosslinking said biological material comprises crosslinking with a crosslinking agent selected from a group consisting of genipin, its analog, derivatives, and combination thereof, aglycon geniposidic acid, epoxy compounds, dialdehyde starch, glutaraldehyde, formaldehyde, dimethyl suberimidate, carbodiimides, succinimidyls, diisocyanates, reuterin, and acyl azide.
- 23. The implant of claim 9, wherein the means for crosslinking said biological material comprises exposing said material to ultraviolet irradiation, dehydrothermal treatment, tris(hydroxymethyl)phosphine, ascorbate-copper, glucose-lysine or photo-oxidizers
- 24. The implant of claim 9, wherein the means for crosslinking said biological material comprises crosslinking with a reversible crosslinking agent selected from a group consisting of polyphenolic compounds, proanthocyanidin, epigallocatechin gallate, epicatechin, epigallocatechin, epicatechin gallate, and combination thereof.
- 25. A method of treating a target tissue of a patient comprising:

 providing a biodegradable stem made of at least one layer or zone of biological material, said biological material comprising at least one bioactive agent;

:



crosslinking the biological material; and

delivering the stent to the target tissue and releasing the bioactive agent for treating the target tissue.

- 26. The method of claim 25, wherein the target tissue is atherosclerosis plaque or vulnerable plaque.
- 27. A crosslinked biodegradable stent comprising at least one layer or zone of crosslinkable material, said crosslinkable material comprising at least one bioactive agent and being crosslinked with a means for crosslinking said biological material.
- 28. The stent of claim 27, wherein the crosslinkable material comprises poly(amides) or poly(ester amides).